CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KVSR/CEMENT/2013-14

Date: 20.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. K.V. Subba Reddy**, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Ward Office in Ward. No.10 (Doddabommasandra) Vidyaranyapura Sub Division (Phase-3), BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/422/1/2013-14 Dated: 18.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.00 %	-

Note:

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4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore - 560 079

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KVSR/SAND/2013-14 : 20.02.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. K.V. Subba Reddy,** Contractor, Bangalore.

Name of Work : Construction of Ward Office in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division (Phase-3), BBMP, Bangalore.Bangalore.

Reference : AEE/VSD/PR/422/1/2013-14 Dated: 18.02.2014

Date of Testing : 20.02.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	88	4.40	4.40	95.6	90-100
2.36	227	11.35	15.75	84.3	75-100
1.18	510	25.50	41.25	58.8	55-90
600 Micron	415	20.75	62.00	38.0	35-59
300 Micron	497	24.85	86.85	13.2	8-30
150 Micron	209	10.45	97.30	2.7	0-10

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Basaveshwaranagar,
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Job No.: CTCE/BBMP/W.No.10/KVSR/AGG/2013-14 : 20.02.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. K.V. Subba Reddy,** Contractor, Bangalore.

Name of Work : Construction of Ward Office in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division (Phase-3), BBMP, Bangalore.Bangalore.

Reference : AEE/VSD/PR/422/1/2013-14 Dated: 18.02.2014

Date of Testing : 20.02.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	989	3.96	3.96	96.04	95-100
20	15192	60.77	64.72	35.28	30-70
10	5998	23.99	88.72	11.28	10-35
4.75	2564	10.26	98.97	1.03	0-5

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4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KVSR/BRICKS/2013-14

Date: 24.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore
AGENCY	:	**Mr. K.V. Subba Reddy**, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Ward Office in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division (Phase-3), BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/422/1/2013-14 Dated: 18.02.2014
SAMPLE ID	:	Brick Test
SAMPLES SUPPLIED BY	:	CLIENT

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.75 N/mm2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	9.55 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		4660 mm	(4600 ± 80 mm)
(b)	Measurement of Width in mm		2220 mm	(2200 ± 40 mm)
(c)	Measurement of Height in mm		1415 mm	(1400 ± 40 mm)

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23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
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Bangalore - 560 079

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Job No.: CTCE/BBMP/W.No.10/KVSR/CUBE/2013-14

28.03.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. K.V. Subba Reddy,** Contractor,Bangalore.
Name of the work	: Construction of Ward Office in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division (Phase-3), BBMP, Bangalore.
Reference	: AEE/VSD/PR/422/1/2013-14 Dated: 18.02.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2014	28.03.2014	8.197	488.4	21.71
2	28.02.2014	28.03.2014	8.376	504.2	22.41
3	28.02.2014	28.03.2014	8.267	498.4	22.15

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23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore - 560 079